## ABSTRACT OF THE INVENTION

The present invention relates to a novel cancer therapy based on interference with the function or on downregulation of overproduced CEA/NCA, which plays an instrumental role in tumorigenesis and malignant progression through its differentiation-blocking activity. More precisely, there is provided three short amino acid sequence subdomains in the N domain of CEA and NCA that, when applied as peptides, peptide mimetics or anti-sudomain monoclonal antibodies to malignant tumors overproducing CEA/NCA, induce them to differentiate, thereby inhibiting their ability to grow and increasing the efficacy of other modes of treatment. Four other means of releasing the CEA/NCAimposed differentiation block are also provided. enhanced differentiation status of cancers induced by these CEA/NCA-based novel modes of treatment expected to increase the efficacy of virtually any other mode of treatment by enhancing the bystander. effect. whereby more differentiated cancer cells normalize the behaviour of adjacent less differentiated cancer cells.

"Express Mail" mailing label number: <u>EL600376098US</u>
Date of Deposit: <u>August 11, 2000</u>

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to the Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.